

Scientific Note:

Spring Aspects of the diurnal *Lepidoptera* of Kulp District with new faunal records (Diyarbakır Province, East Turkey)

by

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In late 2007, second author made her first attempt in order to determine the *Lepidoptera* fauna of Kulp District (Diyarbakır Province, East Turkey), her birth place, and prepared a small collection for scientific purpose. Among them, the following 11 butterfly and 13 moth species were identified by the first author within a short time and recorded all of them as new to the district fauna. The diurnal species are marked with “*” in the following list:

Argynnidae

1. *Argynnis (Pandoriana) pandora pandora* ([Denis & Schiffermüller],1775)*

Pieridae

2. *Pieris (Artogeia) pseudorapae suffusa* Sheljuzhko,1931*
3. *Pieris (Artogeia) rapae* (Linnaeus,1758)*

Satyridae

4. *Hipparchia (s.str.) syriaca syriaca* (Staudinger,1871)*
5. *Kirinia (Melike) roxelana roxelana* (Cramer,[1777])*

¹ See: “Observing and Collecting *Lepidoptera* in East Turkey in 2007” and “Research programs in 2008” by Ahmet Ömer Koçak. – Cesa News 5 [21 January 2008].

6. *Lasiommata megera transcaspica* (Staudinger,1901)*
7. *Maniola (Telmessiola) telmessia telmessia* (Zeller,1847)*
8. *Pararge aegeria aegeria* (Linnaeus,1758)*

Lycaenidae

9. *Lycaena (s.str.) phlaeas timeus* (Cramer,[1777])*
10. *Polyommatus (Aricia (s.str.)) agestis agestis* ([Denis & Schiffermüller],1775)*
11. *Quercusia quercus quercus* (Linnaeus,1758)*

Ethmiidae

12. *Ethmia candidella candidella* (Alpheraky,1908)

Pyrilidae

13. *Ancylolomia tentaculella* (Hübner,1796)
14. *Nomophila noctuella* ([Denis & Schiffermüller],1775)*

Lasiocampidae

15. *Lasiocampa eversmanni* (Kindermann,1843)

Noctuidae

16. *Agrotis (Crassagrotis) bigramma* (Esper,[1790])
17. *Agrotis (Putagrotis) syricola* Berio,1936
18. *Catocala (s.str.) elocata elocata* (Esper,[1787])
19. *Catocala (s.str.) nupta* (Linnaeus,1767)
20. *Cleoceris scoriacea subcanentis* Hacker,1990
21. *Phlogophora meticulosa* (Linnaeus,1758)
22. *Stilbina (s.str.) hypaenides* Staudinger,1892
23. *Tholera decimalis* (Poda,1761)

Arctiidae

24. *Euplagia quadripunctaria fulgida* (Oberthür,1896)*

In early May 2008, second author made a short trip to the same district and collected more butterflies and moths. After evaluation of the material of the diurnal species (214 examples), totally 44 species are identified (**Table 1**). Among them, 38 species are new to Kulp District, while 11 species new to Diyarbakır Province. Most abundant species in the spring are *Coenonympha pamphilus* (Satyridae) in grassy places, and *Allancastris deyrollei* (Papilionidae), where its food-plant *Aristolochia* species grows. The following records of the rare species are also remarkable for the regional fauna: *Polyommatus (Cyaniris) bellis* ssp. *nurmuhammet* (Lycaenidae), *Tomares romanovi* (Lycaenidae), *Thaleropsis ionia* (Argynniidae).

Table 1 – List of the 44 diurnal *Lepidoptera* species recorded in Kulp District on 5-7 May 2008 by M.Aydın, according to the families alphabetically arranged (ex. example, # day flying moth, * new record to Kulp, + new record to Diyarbakır Province; Δ observation). Localities of Taşköprü: 1- Ziyaret Meryem, 5-6.5.2008; (2)- Beyaz Çeşme (Kaniya spi) 7.5.2008; [3]- Kulp stream, 7.5.2008

Family	Species	ex.	Total	Localities
Argynniidae	<i>Limenitis reducta</i> *	1 + [4]	5	1 [3]
Argynniidae	<i>Nymphalis polychloros</i> * Δ	-	-	
Argynniidae	<i>Nymphalis xanthomelas</i> *+ Δ	-	-	
Argynniidae	<i>Melitaea cinxia</i> *	1 + [3]	4	1 [3]
Argynniidae	<i>Melitaea collina</i> *	(1) + [1]	2	(2) [3]
Argynniidae	<i>Thaleropsis ionia</i> *	[1]	1	[3]
Argynniidae	<i>Melitaea phoebe</i> *	[1]	1	[3]
Argynniidae	<i>Polygonia c-album</i> *+	[1]	1	[3]
Ctenuchidae	<i>Amata</i> sp.*+ #	5	5	1
Geometridae	<i>Chiasmia clathrata</i> *+ #	4	4	1
Geometridae	<i>Pseudopanthera syriacata</i> *+ #	3	3	1

Geometridae	<i>Aspitates sp*+##</i>	(1)	1	(2)
Geometridae	<i>Aplasta ononaria*+##</i>	[1]	1	[3]
Hesperiidae	<i>Thymelicus lineolus*</i>	(1) + [7]	8	(2) [3]
Hesperiidae	<i>Pyrgus sidae*</i>	[4]	4	[3]
Hesperiidae	<i>Erynnis tages*</i>	[3]	3	[3]
Hesperiidae	<i>Erynnis (Hesperopegasus) marloyi*</i>	[1]	1	[3]
Hesperiidae	<i>Pyrgus melotis*</i>	[2]	2	[3]
Hesperiidae	<i>Carcharodus alceae*</i>	[2]	2	[3]
Hesperiidae	<i>Carcharodus (Reverdinus) orientalis*</i>	[1]	1	[3]
Libytheidae	<i>Libythea celtis*+</i>	[1]	1	[3]
Lycaenidae	<i>Polyommatus (Cyaniris) bellis nurmuhemmet*+</i>	18 + (1) + [2]	21	1 (2) [3]
Lycaenidae	<i>Callophrys rubi*</i>	3	3	1
Lycaenidae	<i>Lycaena phlaeas</i>	1	1	1
Lycaenidae	<i>Glaucopsyche alexis*</i>	(1)	1	(2)
Lycaenidae	<i>Tomares romanovi*+</i>	[5]	5	[3]
Lycaenidae	<i>Polyommatus (s.str.) icarus*</i>	[2]	2	[3]
Lycaenidae	<i>Polyommatus (Lysandra) bellargus*</i>	2 + [1]	3	1 [3]
Lycaenidae	<i>Polyommatus (Aricia) agestis</i>	[2]	2	[3]
Lycaenidae	<i>Celastrina argiolus*</i>	[1]	1	[3]
Lycaenidae	<i>Cupido osiris*</i>	[1]	1	[3]
Papilionidae	<i>Allancastris deyrollei*</i>	34 + (2)	36	1 (2)
Papilionidae	<i>Archon apollinaris*Δ</i>	-	-	-
Pieridae	<i>Aporia crataegi*</i>	9 + (5) + [7]	21	1 (2) [3]
Pieridae	<i>Pieris persis*+</i>	3 + [5]	8	1 [3]
Pieridae	<i>Pieris pseudorapae</i>	(2)	2	(2)
Pieridae	<i>Pieris rapae</i>	(1) + [1]	2	(2) [3]
Pieridae	<i>Anthocharis cardamines*</i>	[3]	3	[3]
Pieridae	<i>Gonepteryx farinosa*</i>	[1]	1	[3]
Pyralidae	<i>Synaphe consecratalis*#</i>	1 + [1]	2	[3]
Pyralidae	<i>Tretopteryx pertusalis*#</i>	1	1	1
Satyridae	<i>Coenonympha pamphilus*</i>	22 + (4) + [16]	42	1 (2) [3]
Satyridae	<i>Pararge aegeria</i>	4	4	1
Satyridae	<i>Maniola telmessia</i>	1 + (1)	2	1 (2)
44 diurnal species of 10 families		Total	214 ex.	

List of the Hitherto Determined *Lepidoptera* Species in Kulp District

Totally 60 species belonging to 13 families of the *Lepidoptera* are listed below. Diurnal species are marked with *. Totally 51 diurnal, 9 nocturnal species are recorded.

1. *Euplagia quadripunctaria* (Poda,1761) (Arctiidae)*
2. *Argynnis (Pandoriana) pandora* ([Denis & Schiffermüller],1775) (Argynnididae)*
3. *Limenitis (Azuritis) reducta* Staudinger,1901 (Argynnididae)*
4. *Nymphalis polychloros* (Linnaeus,1758) (Argynnididae)*
5. *Nymphalis xanthomelas* (Esper,[1781]) (Argynnididae)*
6. *Melitaea (Cinclidia) (phoebe) punica* Oberthür,1876 (Argynnididae)*
7. *Melitaea (Cinclidia) collina* Lederer,1861 (Argynnididae)*
8. *Melitaea (s.str.) cinxia* (Linnaeus,1758) (Argynnididae)*
9. *Polygonia (Comma) c-album* (Linnaeus,1758) (Argynnididae)*
10. *Thaleropis ionia* (Eversmann,1851) (Argynnididae)*
11. *Ethmia candidella* (Alpheraky,1908) (Ethmiidae)
12. *Aplasta ononaria* (Fuessly,1783) (Geometridae)*
13. *Chiasmia clathrata* (Linnaeus,1758) (Geometridae)*
14. *Pseudopanthera syriacata* (Guenée,1852) (Geometridae)*
15. *Carcharodus (Reverdinus) orientalis* Reverdin,1913 (Hesperiidae)*
16. *Carcharodus (s.str.) alceae* (Esper,[1780]) (Hesperiidae)*
17. *Erynnis (Hesperopegasus) marloyi* (Boisduval,[1834]) (Hesperiidae)*
18. *Erynnis (s.str.) tages* (Linnaeus,1758) (Hesperiidae)*
19. *Pyrgus melotis* (Duponchel,[1834]) (Hesperiidae)*

20. *Pyrgus sidae* (Esper,[1784]) (*Hesperiidae*)*
21. *Thymelicus lineolus* (Ochsenheimer,1808) (*Hesperiidae*)*
22. *Lasiocampa eversmanni* (Kindermann,1843) (*Lasiocampidae*)
23. *Libythea* (s.str.) *celtis* (Laicharting,1782) (*Libytheidae*)*
24. *Callophrys rubi* (Linnaeus,1758) (*Lycaenidae*)*
25. *Celastrina argiolus* (Linnaeus,1758) (*Lycaenidae*)*
26. *Cupido* (s.str.) *osiris* (Meigen,[1829]) (*Lycaenidae*)*
27. *Glaucopsyche* (s.str.) *alexis* (Poda,1761) (*Lycaenidae*)*
28. *Lycaena* (s.str.) *phlaeas* (Linnaeus,1761) (*Lycaenidae*)*
29. *Polyommatus* (*Aricia* (s.str.)) *agestis* ([Denis & Schiffermüller],1775) (*Lycaenidae*)*
30. *Polyommatus* (s.str. (*Cyaniris*)) *bellis* (Freyer,[1842]) (*Lycaenidae*)*
31. *Polyommatus* (s.str. (*Lysandra*)) *bellargus* (Rottemburg,1775) (*Lycaenidae*)*
32. *Polyommatus* (s.str.) *icarus* (Rottemburg,1775) (*Lycaenidae*)*
33. *Quercusia quercus* (Linnaeus,1758) (*Lycaenidae*)*
34. *Tomares romanovi* (Christoph,1882) (*Lycaenidae*)*
35. *Agrotis* (*Crassagrotis*) *bigramma* (Esper,[1790]) (*Noctuidae*)
36. *Agrotis* (*Putagrotis*) *syricola* Berio,1936 (*Noctuidae*)
37. *Catocala* (s.str.) *elocata* (Esper,[1787]) (*Noctuidae*)
38. *Catocala* (s.str.) *nupta* (Linnaeus,1767) (*Noctuidae*)
39. *Cleoceris scoriacea* (Esper,[1789]) (*Noctuidae*)
40. *Phlogophora meticulosa* (Linnaeus,1758) (*Noctuidae*)
41. *Stilbina* (s.str.) *hypaenides* Staudinger,1892 (*Noctuidae*)
42. *Tholera decimalis* (Poda,1761) (*Noctuidae*)
43. *Archon apollinaris* (Staudinger,1892) (*Papilionidae*)*
44. *Zerynthia* (*Allancastris*) *deyrollei* (Oberthür,1869) (*Papilionidae*)*
45. *Anthocharis cardamines* (Linnaeus,1758) (*Pieridae*)*
46. *Aporia* (s.str.) *crataegi* (Linnaeus,1758) (*Pieridae*)*
47. *Gonepteryx* (s.str.) *farinosa* (Zeller,1847) (*Pieridae*)*
48. *Pieris* (*Artogeia*) *persis* Verity,1922 (*Pieridae*)*
49. *Pieris* (*Artogeia*) *pseudorapae* Verity,1908 (*Pieridae*)*
50. *Pieris* (*Artogeia*) *rapae* (Linnaeus,1758) (*Pieridae*)*
51. *Ancylolomia tentaculella* (Hübner,1796) (*Pyrilidae*)
52. *Nomophila noctuella* ([Denis & Schiffermüller],1775) (*Pyrilidae*)*
53. *Synaphe consecratalis* (Lederer,1855) (*Pyrilidae*)*
54. *Tretopteryx pertusalis* (Geyer,[1832]) (*Pyrilidae*)*
55. *Coenonympha* (s.str.) *pamphilus* (Linnaeus,1758) (*Satyridae*)*
56. *Hipparchia* (s.str.) *syriaca* (Staudinger,1871) (*Satyridae*)*
57. *Kirinia* (*Melike*) *roxelana* (Cramer,[1777]) (*Satyridae*)*
58. *Lasiommata megera* (Linnaeus,1767) (*Satyridae*)*
59. *Maniola* (*Telmessiola*) *telmessia* (Zeller,1847) (*Satyridae*)*
60. *Pararge aegeria* (Linnaeus,1758) (*Satyridae*)*

In conclusion, the 13 families and their species recorded so far in Kulp District are as follows; *Arctiidae* (1), *Argynnidae* (9), *Ethmiidae* (1), *Geometridae* (3), *Hesperiidae* (7), *Lasiocampidae* (1), *Libytheidae* (1), *Lycaenidae* (11), *Noctuidae* (10), *Papilionidae* (2), *Pieridae* (6), *Pyrilidae* (4), *Satyridae* (6).

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Fig. – 1 Habitat: Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. – 2 *Melitaea cinxia* (Argynnidæ) at rest. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. – 3 *Nymphalis polychloros* full grown larva before pupation (*Argynnisidae*). Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. – 4 *Nymphalis xanthomelas* full grown larva (*Argynnisidae*). Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)

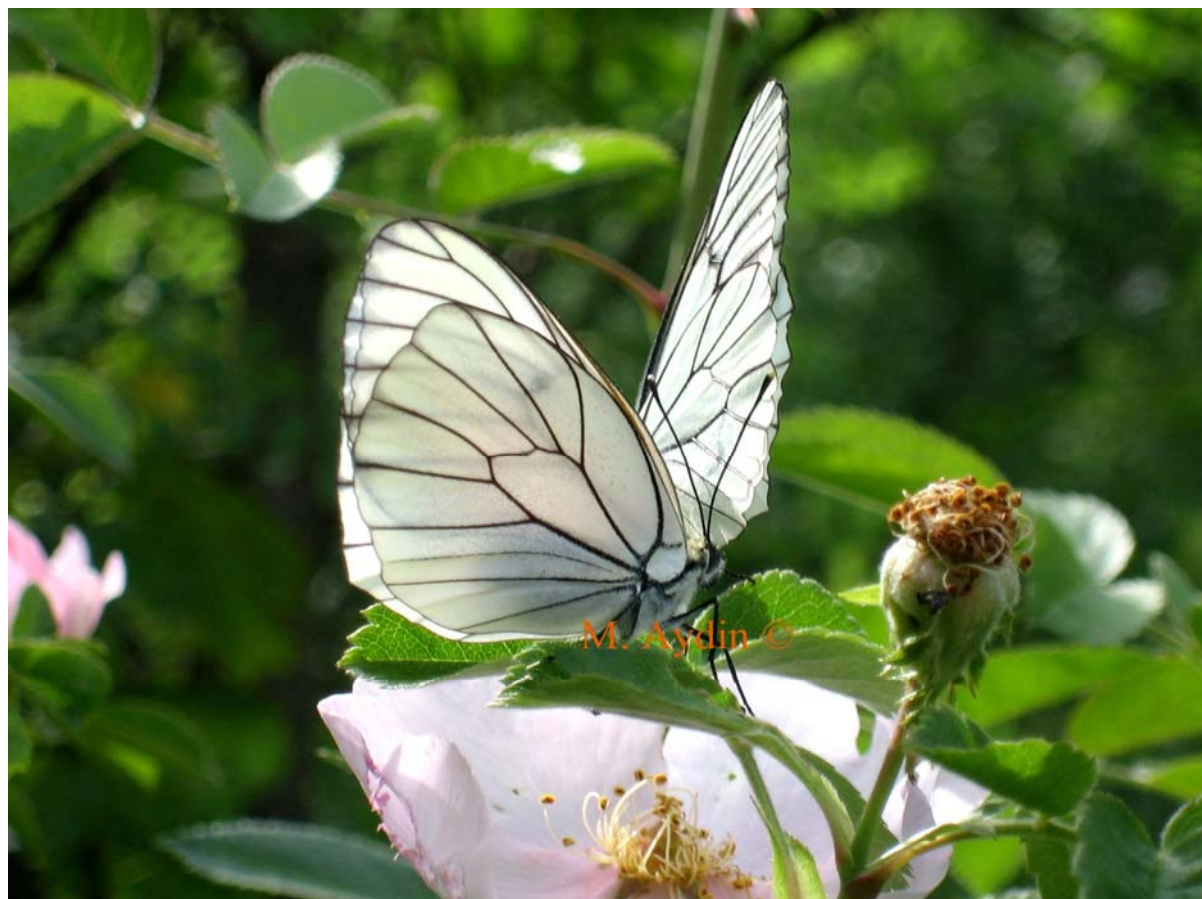


Fig. – 5 *Aporia crataegi* (Pieridae). butterflies on *Rosa canina* (Rosaceae). Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. – 6 *Aporia crataegi* (Pieridae). butterfly at rest on *Rosa canina* (Rosaceae). Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. –7 *Archon apollinaris* (Papilionidae) female inside of a spider web. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. –8 *Polyommatus* (Cyaniris) *bellis* ssp. *nurmuhammet* (Lycaenidae) basking males near stream. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)

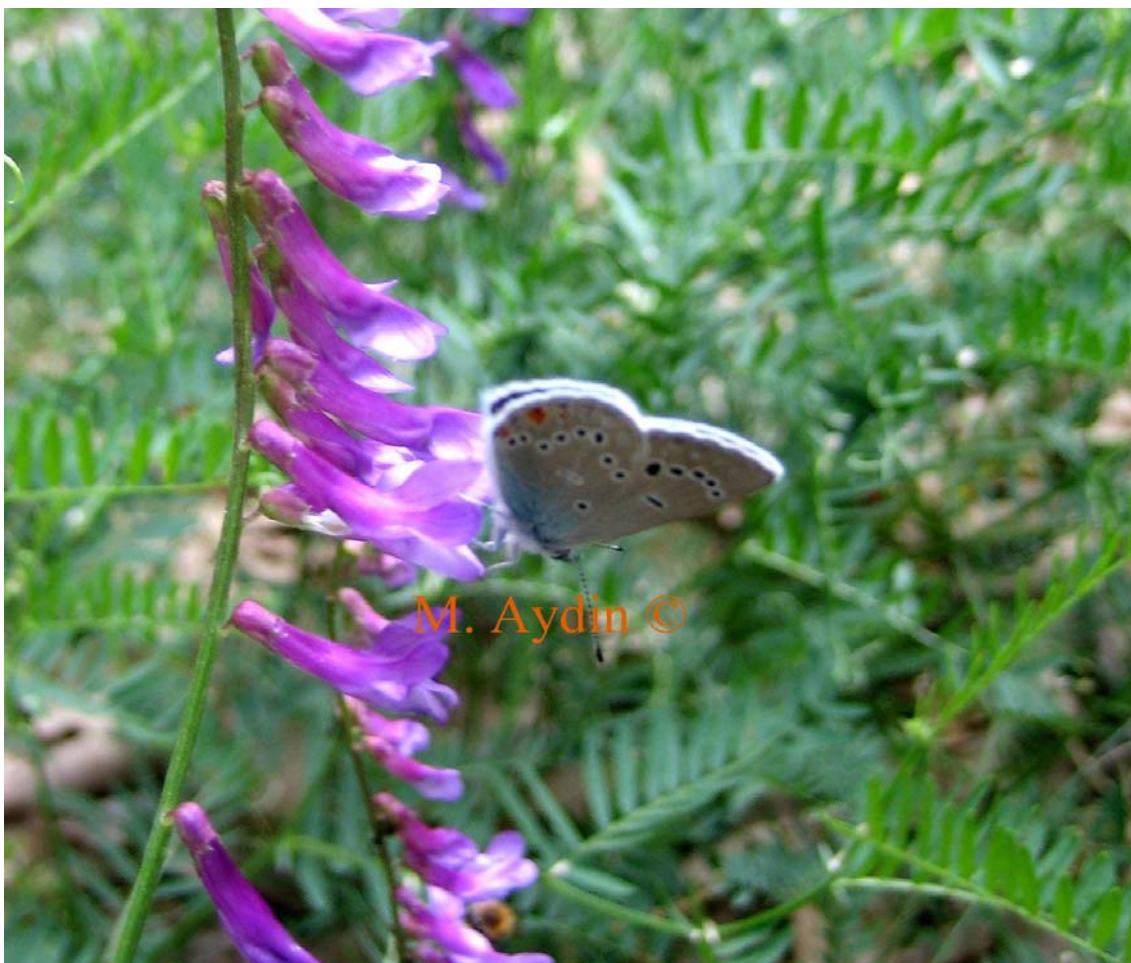


Fig. –9 *Polyommatus (Cyaniris) bellis ssp. nurmuhammet (Lycaenidae)* at rest. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. –10 *Polyommatus (Lysandra) bellargus (Lycaenidae)* a male at rest. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008 (Photo M.Aydın©)



Fig. –11 *Tomares romanovi* (Lycaenidae) at rest. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008
(Photo M.Aydın©)



Fig. –12 *Carcharodus alceae* (Hesperiidae) at rest. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream, 7.5.2008
(Photo M.Aydın©)



Fig. –13 Environment of the Taşköprü village, Kulp stream. Turkey, Diyarbakır Prov., Kulp, Taşköprü, 7.5.2008 (M.Aydın©)



Fig. –14 Environment of the Taşköprü village, a collecting place. Turkey, Diyarbakır Prov., Kulp, Taşköprü, 7.5.2008 (M.Aydın©)



Fig. –15 Environment of the Taşköprü village, after field work, at rest. Turkey, Diyarbakır Prov., Kulp, Taşköprü, Kulp stream 7.5.2008 (M.Aydın©)



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